

**Abstract**

An addressing scheme for a packet-based multiaccess mobile communications system, which includes a plurality of mobile user stations and a plurality of network nodes, is provided. In such addressing scheme, each mobile station is assigned an address which is a combination 5 (preferably, a concatenation) of a unique identifier of a network node with which the mobile station is currently associated and an identifier of the mobile station. The network node identifiers may be uniquely assigned by a network administrator, while the identifiers of the mobile stations may, for example, be set to a universal MAC address assigned to the station. The address may also include a port identifier which indicates the particular application flow 10 associated with the accompanying packets. Similarly, each network node is assigned an address which is a combination (preferably, a concatenation) of its network node identifier and, preferably, an interface identifier. The address may also include a port identifier.

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